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JOHN A. SMART 708 BLOSSOM HILL RD., #201 LOS GATOS, CA 95032			EXAMINER DIVECHA, KAMAL B	
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**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 09/944,057	<b>Applicant(s)</b> FREUND ET AL.	
	<b>Examiner</b> KAMAL B. DIVECHA	<b>Art Unit</b> 2151	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 29 February 2008.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-64 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-64 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)          | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)          | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____  | 6) <input type="checkbox"/> Other: _____                          |

### **DETAILED ACTION**

This Action is in response to communications filed 2/29/08.

Claims 1-64 are pending in this application.

### **Response to Arguments**

Applicant's arguments filed in the communications with respect to claims 1-64 have been fully considered but **are moot in view of the new ground(s) of rejection**, as necessitated by the claim amendments.

### **Examiner's Comments**

During patent examination, the pending claims must be "given >their< broadest reasonable interpretation consistent with the specification." > In re Hyatt, 211 F.3d 1367, 1372, 54 USPQ2d 1664, 1667 (Fed. Cir. 2000). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

Applicant always has the opportunity to amend the claims during prosecution, and broad interpretation by the examiner reduces the possibility that the claim, once issued, will be interpreted more broadly than is justified. In re Prater, 415 F.2d 1393, 1404-05, 162 USPQ 541, 550-51 (CCPA 1969).

In the communications filed 2/29/08, applicant has raised and/or argued various subject matter and/or features that are not recited in the claims.

Art Unit: 2100

For example:

Applicant submits that the claim amendments makes it clear that applicant's invention is directed to **repeatedly checking** (e.g. every few second) the user's computers for compliance (remarks, pg. 13)...in this manner, applicant's claimed invention provides around-the-clock protection of networks so that...as those combined references provide no teaching or suggestions for continual, router-initiated monitoring of client computers...applicant's invention regulates Internet access by continually challenging client computers to prove...(remarks, pg. 11-14 [A]).

Applicant further submits "...making decision about whether or not to permit access based on a client computer's then-current compliance with any applicable access policy...the client hello..." (remarks, pg. 14-15 [B] and claim 6 and 30).

Applicant further submits "...Particular applications in this context may mean that a certain version (namely, the current version) of antivirus software must be installed..." (remarks, pg. 15 [C] and claim 13-16, etc).

**Currently Amended Independent claim 1, in part, recites:**

"...transmitting a plurality of challenges **over a period of time from** said client premises equipment to each client computer for..."

The feature "transmitting a plurality of challenges over a period of time..." can simply be interpreted as **a single transfer** of plurality of challenges over a period of time. For example: transmitting plurality of challenges over 10 seconds.

**The claim simply fails** to disclose, teach and/or suggest any of the features as submitted by the applicant. More specifically, there is nothing in the claim that would suggest the

Art Unit: 2100

providence of around-the-clock and/or continual challenging client computers, applications are in view of antivirus software, etc.

It's clearly seen that applicant is improperly transporting and/or reading the limitations from the specification into the claims.

**Also**, in light of applicant's failure to traverse the examiner's assertion of official notice, the well-known in the art statement is taken to be admitted prior art.

**Claim Rejections - 35 USC § 112**

In response filed, applicant failed to address the 35 USC 112, second paragraph rejection presented in the previous office action.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 7, 41 and 52 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claims 7, 41 and 52, the phrase "others" renders the claim(s) indefinite because it is unclear which one of the plurality of clients the term is referring to, thereby rendering the scope of the claim(s) unascertainable. See MPEP § 2173.05(d).

**Claim Rejections - 35 USC § 103**

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

1. Claims 1-5, 7-12, 17-22, 24, 27-29, 31-33, 35-39, 45-55, 57 and 61 are rejected under 35 U.S.C. 103(a) as being unpatentable over Stockwell et al. (hereinafter Stockwell, US 5,950,195) in view of Phillips et al. (hereinafter Philips, US 6,721,555 B1).

As per claim 1, Stockwell discloses a system comprising one or more client computers connected to the Internet by client premises equipment serving a routing function for client computers (fig. 1: the computers connected to internal network, col. 4 L21-42: a firewall gateway), a method for managing Internet access based on a specified access policy (col. 1 L5-10, col. 3 L16-54, col. 5 L16-22: access policies), the method comprising:

a challenge/response sequence for determining whether a given client computer is in compliance with said specified access policy (col. 5 L16 to col. 6 L67, col. 9 L1-60);

blocking Internet access for any client computer that does not respond appropriately to any challenge issued to it (col. 5 L16 to col. 6 L67, col. 9 L1-60: blocking the Internet access by dropping the connection, col. 11 L5-67).

However, Stockwell does not explicitly disclose the process of transmitting plurality of challenges over a period of time from said client premises equipment to each client computer **for** determining whether a given client computer remains in compliance with policy during period of

Art Unit: 2100

time and transmitting a response from at least one client computer back to said client premises equipment **for** responding to each of challenges that has been issued.

Philips explicitly discloses an Internet access device that performs the process of transmitting a plurality of challenges over a period of time from said client premises equipment to each client computer for determining whether the given client computer remains in compliance and transmitting a response from at least one client computer back to said client premises equipment for responding to each of said challenges that has been issued (col. 4 L50-67, col. 5 L6 to col. 6 L28, col. 7 L4-9: IFW with router).

Therefore, it would have been obvious to a person of ordinary skilled in the art at the time the invention was made to modify Stockwell in view of Philips in order transmit a plurality of challenges over period of time to the client computer and receiving a response to the challenges.

One of ordinary skilled in the art would have been motivated because it would have provided a mechanism for periodically verifying the users and/or clients (Phillips: col. 5 L19-64).

As per claim 2, Stockwell discloses the process wherein a client computer that does not respond at all is blocked from Internet access (col. 5 L16 to col. 6 L67, col. 9 L1-60: blocking the Internet access by dropping the connection; its also obvious that if the client doesn't respond to the username/pswd prompt, the client will not be allowed to access the Internet).

As per claim 3, Stockwell discloses the process wherein a client computer that responds with a particular predefined code indicating non-compliance is blocked from Internet access (i.e. invalid response, col. 5 L16 to col. 6 L67, col. 9 L1-60: its obvious that if client responds to the

Art Unit: 2100

challenge with incorrect information or code, the client will be blocked or not allowed to access the Internet).

As per claim 4, Stockwell discloses the process wherein a client computer that responds with a particular predefined code indicating compliance is permitted Internet access (col. 5 L16 to col. 6 L67, col. 9 L1-60).

As per claim 5, Stockwell discloses the process wherein before a receipt of a challenge, transmitting an initial message from a particular client computer to the client premises equipment for requesting the client premises equipment to transmit a challenge to that particular client computer (i.e. transmitting an initial connection request message that enables the firewall to send the challenge, col. 5 L53 to col. 6 L67, col. 8 L38 to col. 9 L60, col. 14 L5-55).

As per claim 7, Stockwell discloses the process wherein client premises equipment is capable of permitting Internet access by selected client computers and denying access to other client computers (col. 10 L12 to col. 11 L46, col. 11 L47 to col. 13 L67: several examples of ACLS, col. 8 L38-45).

As per claim 8, Stockwell disclose the process wherein access policy specifies rules that govern Internet access by the client computers (fig. 5, col.1 L40 to col. 2 L67, col. 5 L16-46, col. 6 L46 to col. 7 L67, col. 10 L12 to col. 11 L67).

As per claim 9, Stockwell discloses the process of determining whether permitting Internet access for a given client computer would violate any of rules and if permitting such Internet access would violate any of said rule, denying Internet access for that client computer (fig. 5, col.1 L40 to col. 2 L67, col. 5 L16-46, col. 6 L46 to col. 7 L67, col. 10 L12 to col. 11

Art Unit: 2100

L67: its obvious that this determination will be made in order to deny or allow the Internet access).

As per claim 10, Stockwell discloses the process wherein access policy includes rules that are enforced against selected ones of users, computers and groups thereof (col. 10 L12 to col. 11 L67).

As per claim 11, Stockwell discloses the process wherein said access policy specifies which applications are allowed Internet access (col. 5 L16-22, col. 7 L1-45, col. 8 L20-30: ftp and http type of accesses, col. 10 L12-67: Matching criteria for rule including: a list of service names such as ftp or http, in other words, a list of applications).

As per claim 12, Stockwell discloses the process wherein said access policy specifies applications that are allowed Internet access (col. 5 L16-22, col. 7 L1-45, col. 8 L20-30: ftp and http type of accesses, col. 10 L12-67: Matching criteria for rule including: a list of service names such as ftp or http, in other words, a list of applications).

As per claim 17, Stockwell discloses the process wherein said access policy specifies Internet access activities that are permitted or restricted for applications or version thereof (col. 5 L16-22, col. 7 L1-45, col. 8 L20-30: for http, types of URLs blocked, col. 10 L12-67, col. 11 L35-41, col. 14 L13-24).

As per claim 18, Stockwell discloses the process wherein said access policy specifies rules that are transmitted to client computers from a remote location (col. 8 L38 to col. 9 L60, col. 11 L5-67).

As per claim 19, Stockwell discloses the process wherein the remote location comprises a centralized location for maintaining said access policy (col. 5 L35-46, col. 7 L1-67, col. 8 L38 to col. 9 L60, col. 11 L5-67: a relational database).

As per claim 20, Stockwell discloses the process wherein the process of blocking Internet access includes determining, based on identification of a particular client computer or group thereof, a specific subset of rules filtered for that particular client computer or group thereof (col. 5 L16 to col. 6 L67, col. 7 L1-67, col. 8 L38 to col. 9 L1-60, col. 10 L12 to col. 11 L67, col. 13 L11 to col. 14 L55).

As per claim 21, Stockwell discloses the process wherein challenge includes a request for a particular client computer to respond as to whether it is in compliance with said access policy (col. 5 L16 to col. 6 L67, col. 9 L1-60).

As per claim 22, Stockwell discloses the process of redirecting a client computer that is not in compliance with said access policy to a sandbox server (i.e. a server, col. 7 L45 to col. 8 L20, col. 11 L5 to col. 12 L44) and informing client computer that it is not in compliance with said access policy (col. 9 L1 to col. 10 L8: sending a warning message to the client in response to denied connection).

As per claim 46, Stockwell discloses the system wherein said client premises equipment includes a router (col. 4 L8-42).

As per claim 47, Stockwell discloses the system wherein said access policy is provided at client computer to be regulated (col. 3 L18-54, col. 5 L16-67).

As per claim 48, Stockwell discloses the system wherein enforcement module is provided at client premises equipment (fig. 2, col. 4 L21-42, col. 5 L16-67).

Art Unit: 2100

As per claims 24, 27-29, 31-33, 35-39, 45, 49-55, 57, 61, they do not teach or further define over the limitations 1-5, 7-12, 17-22, 46-48. Therefore claims 24, 27-29, 31-33, 35-39, 45, 49-55, 57, 61 are rejected for the same reasons as set forth in claims 1-5, 7-12, 17-22, 46-48.

2. Claims 6 and 30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Stockwell et al. (hereinafter Stockwell, US 5,950,195) in view of Philips et al. (hereinafter Philips, US 6,721,555 B1), and further in view of Kadyk et al. (hereinafter Kadyk, US 6,996,841 B2).

As per claim 6, Stockwell in view of Phillips does not disclose the process wherein the initial message comprises a “client hello” packet.

Kadyk explicitly discloses the process of sending the “client hello” packet to the server (fig. 3A, col. 10 L20-52).

Therefore, it would have been obvious to a person of ordinary skilled in the art at the time the invention was made to modify Stockwell in view of Phillips and further in view of Kadyk in order send a client hello packet.

One of ordinary skilled in the art would have been motivated because it would have created a secured session (col. 10 L20-52).

As per claim 30, it does not teach or further define over the limitations in claim 6. Therefore claim 30 is rejected for the same reasons as set forth in claim 6.

Art Unit: 2100

3. Claims 13-16, 34, 42-44, 56 and 58-60 are rejected under 35 U.S.C. 103(a) as being unpatentable over Stockwell et al. (hereinafter Stockwell, US 5,950,195) in view of Philips et al. (hereinafter Philips, US 6,721,555 B1), and further in view of “Official Notice”.

As per claim 13, Stockwell in view of Phillips disclose the process wherein the applications are specified by executable name (col. 13 L10-67, col. 12 L10-67).

However, Stockwell in view of Phillips does not disclose the process wherein the applications are specified by version number.

But, application name and the version number are two common parameters used in the art for identifying applications.

Therefore, Official Notice is taken to indicate that specifying the applications by executable name and version number is well-known in the art.

As such, it would have been obvious to a person of ordinary skilled in the art at the time the invention was made to modify Stockwell and Phillips in order to use the executable name and version number of the applications.

One of ordinary skilled in the art would have been motivated because these are common parameters used for identifying the applications.

As per claims 14-16, Stockwell in view of Phillips does not disclose the process wherein the applications are specified by digital signatures, wherein the digital signatures are computed using cryptographic hash, and wherein the cryptographic hash comprises one of Secure Hash algorithm (SHA-1) and MD5 cryptographic hashes.

Art Unit: 2100

But, Secure Hash algorithm (SHA-1) and MD5 cryptographic hashes, digital signatures are all well-known in the art, as explicitly admitted by the applicant (see specification, pg. 29 lines 14-31, pg. 10 lines 24-41).

Therefore, it would have been obvious to a person of ordinary skilled in the art at the time the invention was made to modify Stockwell and Phillips in order to specify the applications using hashing techniques.

One of ordinary skilled in the art would have been motivated because it would have provided secure communications.

As per claims 34, 42-44, 56 and 58-60, they do not teach or further define over the limitations in claims 13-16. Therefore, claims 34, 42-44, 56 and 58-60 are rejected for the same reasons as set forth in claims 13-16.

4. Claims 23, 25, 26, 40, 41 and 62-64 are rejected under 35 U.S.C. 103(a) as being unpatentable over Stockwell et al. (hereinafter Stockwell, US 5,950,195) in view of Philips et al. (hereinafter Philips, US 6,721,555 B1), and further in view of Shrader et al. (hereinafter Shrader, US 6,026,440).

As per claim 23, Stockwell in view of Phillips discloses the process of redirecting the client computer that is not in compliance with said access policy to a particular port on the sandbox server (i.e. an alternate machine or server, col. 7 L45 to col. 8 L20, col. 11 L5 to col. 12 L44).

However, Stockwell in view of Phillips does not disclose the process of displaying error message pages on the sandbox server in response to communications on particular ports.

Shrader explicitly discloses the process of displaying error messages on a server if the request fails (col. 4 L40-67, obviously the request will fail on a particular machine or port, in this case at the web server port).

Therefore, it would have been obvious to a person of ordinary skilled in the art at the time the invention was made to modify Stockwell in view of Phillips and further in view of Shrader in order to display the error messages on the sandbox server or alternate server.

One of ordinary skilled in the art would have been motivated because it would have notified the client computer of the denial of the service (Shrader, col. 4 L56-667). It would have also improved the routers performance by redirecting the unauthorized client computers to alternate server.

As per claim 26, Stockwell in view of Phillips does not disclose the process wherein after displaying error message, permitting said client to elect to access the Internet.

Shrader discloses the process of displaying the error in response to inappropriate credentials and allowing the client to elect or to access the Internet by prompting the user (col. 4 L56-67).

Therefore, it would have been obvious to a person of ordinary skilled in the art at the time the invention was made to modify Stockwell in view of Phillips and further in view of Shrader in order to enable the client to elect to access the Internet.

One of ordinary skilled in the art would have been motivated because it would have provided the client computer another opportunity to access the Internet.

Art Unit: 2100

As per claims 25, 40, 41 and 62-64, they do not teach or further define over the limitations in claims 23 and 26. Therefore claims 25, 40, 41 and 62-64 are rejected for the same reasons as set forth in claims 23 and 26.

**Additional References**

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

- a. Freeman, US 6,330,588 B1: Verification of Software agents and agent activities.
- b. Treadaway et al., US 6,665,285 B1: Ethernet Switch in a terminal for a wireless MAN.
- c. RFC 1321: MD5 Cryptographic algorithm.
- d. Davis et al., US 6,088,450: Authentication System based on periodic challenge/response protocol.
- e. Abraham et al., US 5,983,270: Method and Apparatus for Managing Internetwork and Intranetwork activity: A Router and/or Firewall for managing Internet Access.
- f. Nykanen et al., US 6,594,483: discloses using the application names for identifying purposes.
- g. Hammond, US 5,974,470: discloses using the version number for applications in setting rules.

**Conclusion**

The teachings of the prior art should not be restricted and/or limited to the citations by columns and line numbers, as specified in the rejection. Although the specified citations are representative of the teachings of the art and are applied to specific limitations within the individual claim, other passages and figures may apply as well. It is respectfully requested from the applicant in preparing responses, to fully consider the references in its entirety as potentially teaching all or part of the claimed invention, as well as the context of the passage as taught by the prior art or disclosed by the examiner.

In the case of amendments, Applicant is respectfully requested to indicate the portion(s) of the specification which dictate(s) the structure relied on for proper interpretation and support, for ascertaining the metes and bounds of the claimed invention.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to KAMAL B. DIVECHA whose telephone number is (571)272-5863. The examiner can normally be reached on Increased Flex Work Schedule.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Follansbee can be reached on 571-272-3964. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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